STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
7-06

ENGLISH STANDARD DRAWING FOR

NOTES FOR REINFORCED BRICK ENDWALL

STANDARD DRAWINGS 838.51 THRU 838.70

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DESIGN DATA

SPECIFICATIONS	AASHTO
STEEL IN TENSION	20,000 PSI
CONCRETE IN COMPRESSION	1,200 PSI
BRICK MASONRY IN COMPRESSION	1,000 PSI
CONCRETE IN SHEAR	90 PSI
BRICK MASONRY IN SHEAR	50 PSI
EQUIVALENT FLUID PRESSURE OF EARTH	30 LBS. PER CU. FT.

GENERAL NOTES:

SELECT BRICK FROM SAMPLES SUBMITTED TO THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. USE BRICK OF SIZE 2¼"x 3⅝"x 7⅝". CONTRACTOR MAY SUBSTITUTE A LARGER BRICK BUT NOT EXCEEDING 3⅝" X 3⅝" X 11⅝". IF A LARGER SIZE IS USED, KEEP BRICK FALL WITHIN NEAT LINES SHOWN ON PLANS. USE ONLY ONE SIZE BRICK IN ANY ONE STRUCTURE. USE CLASS "B" OR BETTER CONCRETE FOR GROUT. GROUT THE CAVITY AREA AT INTERVALS FROM ONE TO NOT MORE THAN FOUR BRICK COURSES AT A TIME. STOP EACH GROUT POUR AT LEAST 1" BELOW TOP OF BRICK COURSE AND ROD TO INSURE FILLING OF ALL VOIDS.

DO NOT PERMIT HEADERS TO CROSS THE GROUTED AREA. PLACE HORIZONTAL REINFORCEMENT LOOSE IN THE GROUT SPACE AS WORK PROGRESSES. PLACE VERTICAL REINFORCEMENT IN THE CENTER OF THE GROUT SPACE. PERMANENT TIES ARE NOT NECESSARY. USE TEMPORARY TIES TO HOLD VERTICAL BARS IN PLACE. CONSTRUCT NEITHER SIDE OF OF THE WALL ABOVE THE OTHER SIDE TO A HEIGHT EXCEEDING SIX (6) COURSES. CONCAVE ALL EXPOSED JOINTS.

USE CLASS 'A' CONCRETE IN THE FOOTINGS.

CONSTRUCT ALL MORTAR JOINTS ⅜" ± ⅛".

PLACE A STONE DRAIN CONSISTING OF ONE (1) CUBIC FOOT OF NUMBER 78M STONE CONTAINED IN A POROUS FABRIC AT EACH WEEP HOLE. PLACE SUBDRAIN FINE AGGREGATE BENEATH, AROUND AND OVER THE STONE DRAIN SO THE STONE DRAIN IS COMPLETELY COVERED BY A LAYER OF SUBDRAIN FINE AGGREGATE AT LEAST ONE (1) FOOT THICK. WHERE MORE THAN ONE WEEP HOLE IN A WING WALL EXISTS, PLACE A HORIZONTAL DRAIN OF SUBDRAIN FINE AGGREGATE AT LEAST ONE (1) FOOT SQUARE IN CROSS SECTION TO CONNECT ALL STONE DRAINS. PLACE A VERTICAL DRAIN OF SUBDRAIN FINE AGGREAGTE AT LEAST ONE (1) FOOT SQUARE IN CROSS SECTION AT EACH WEEP HOLE TO AN ELEVATION OF TWO (2) FEET BELOW THE SURFACE OF THE EMBANKMENT.

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838.75